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7034323001

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Currently Amended) A method for transferring an information object across a network, wherein the information object resides on a first storage device accessed by a provider process executing on a first processor, wherein the information object comprises a plurality of attributes, wherein each attribute contains information, wherein a consumer process executes on a second processor ~~accessing a second storage device~~, the method comprising:

sending the information object across the network to the consumer process;

storing the information object in ~~the~~ a second storage device as a second instance of the information object;

after sending the information object, using the provider process to modify one or more of the attributes of the information object, an amount of information contained by the one or more modified attributes being less than an amount of information contained by the information object;

sending the one or more modified attributes of the information object across the network to the consumer process; and

synchronizing the second instance of the information object based on the one or more modified attributes.

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2. (Original) The method of claim 1, wherein the information object is a data object.
3. (Original) The method of claim 1, wherein the information object is a data definition.
4. (Original) The method of claim 1, wherein the information object is an algorithm.
5. (Currently Amended) The method of claim 1, further comprising:
 - using the consumer process to formulate a relational criterion based on the attributes of the information object;
 - using the consumer process to submit a request to the provider process by performing:
 - providing the allocation of the consumer process within the network,
 - providing the unique identifier associated with the information object, and
 - providing the relational criterion to the provider process;
 - using the provider process to detect when a change in the attributes of the information object satisfies the relational criterion; and
 - in response to the change in the attributes of the information object, transferring information about the changed attributes across the network and updating the second instance on the second storage device in accordance with the information about the changed attributes.
6. (Original) The method of claim 1, wherein the information object is stored in a storage device local to the processor executing the provider process.

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7. (Previously Presented) The method of claim 1, further comprising:
 - using the provider process to create the information object.
8. (Currently Amended) The method of claim 1, wherein a server process is used to control modifications to the information object, the method further comprising:
 - receiving modification requests at the server process in the a form of add/update/delete instructions;
 - using the server process to modify the information object in accordance with the received requests; and
 - using the server process to transmit information on modifications to the information object.
9. (Currently Amended) The method of claim 1, wherein a server process is used to control requests of the consumer process, the method further comprising:
 - receiving consumer requests at the server process in the a form of publish/subscribe/edit operations;
 - in response to a publish operation request, using the server process to create a new instance of the information object;
 - in response to a subscribe operation request, using the server process to cause information on modifications to the information object to update the second instance of the information object on the second storage device; and
 - in response to edit operations, using the server process to modify the

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information object.

10. (Currently Amended) The method of claim 9, wherein ~~at least~~ automated processes execute on one or more processors, the method further comprising:

executing ~~at least~~ an automated process in response to a publish operation to perform a function on an instance of the information object.

11. (Previously Presented) The method of claim 1, wherein multiple instances of the information object exist in multiple storage devices, the method further comprising:

using a server process to prevent one or more of the multiple instances from being synchronized.

12. (Previously Presented) The method of claim 1, wherein:

each attribute comprises one or more name/value pairs, each name/value pair comprises a name and a value, the method further comprising:

formulating a relational criterion based on one or more names of the name/value pairs.

13. (Previously Presented) The method of claim 1, wherein:

each attribute comprises one or more name/value pairs, each name/value pair comprises a name and a value, the method further comprising:

formulating a relational criterion based on one or more values of the name/value pairs.

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14. (Previously Presented) The method of claim 1, wherein:

the network is a client-server arrangement; and

sending the one or more modified attributes of the information object across

the network to the consumer process comprises:

transferring information in a series of multiple store-and-forward

operations.

15. (Original) The method of claim 14, wherein the network is the Internet using Internet Protocol for information transmissions.

16. (Original) The method of claim 15, wherein identification of information objects uses an identifier that includes a Uniform Resource Locator as standardized on the Internet.

17. (Original) The method of claim 1, wherein:

the information object is associated with a data definition defining the class of

the information object; and

each instance of the information object is an instance of the defined class.

18-19. (Cancelled)

20. (Currently Amended) A method for synchronizing a data definition of an information object across a network, wherein a plurality of processors and storage devices are coupled to the network, wherein the data definition resides on a first storage device accessed by a provider process executing on a first processor, wherein the data definition has one or more attributes, wherein a data an information object associated with the data definition resides in a

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second storage device accessed by a first consumer process executing on a second processor,
the method comprising:

using the provider process to change at least one attribute of the data
definition;

propagating at least one of the changed attributes of the data definition across
the network; and

using the first consumer process to access the information object residing in the
second storage device according to at least one of the changed attributes of the data
definition.

21. (Previously Presented) The method of claim 20, further comprising:

assigning a unique identifier to the data definition by changing at least one of
the attributes of the data definition to associate the data definition with a storage place
on the first storage device; and

propagating at least one of the changed attributes of the data definition across
the network by propagating the unique identifier.

22. (Currently Amended) The method of claim 20, wherein ~~multiple additional consumer~~
~~processes executing on multiple processors each access and store a second consumer process~~
~~executing on a third processor accesses and stores the data definition, the method further~~
comprising:

using the first consumer process to modify at least one of the changed

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attributes of the data definition to create a second changed data definition;
transferring the second changed data definition to the provider process; and
using the provider process to propagate the second changed data definition to
~~the additional consumer processes~~ second consumer process.

23-30. (Canceled)

31. (Previously Presented) A system for distributing information objects over the internet, each information object having a plurality of attributes, the system comprising a first computer coupled to the Internet, wherein the first computer includes a user input device and a processor, the system comprising:

means for accepting signals from the user input device to specify a relational condition using one or more of the attributes;

means for using the processor to transfer an indication to the Internet of the specified relational condition;

means for identifying one or more information objects satisfying the relational condition;

means for transferring at least a portion of each identified information object from the Internet to the first computer; and

means for using the processor to receive at least a portion of each identified information object.

32. (Currently Amended) The system of claim 31, wherein one or more attributes of each

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information object includes associated values, wherein the Internet includes a server computer for receiving queries in the a form of specified relational conditions and for comparing query conditions with information object attributes to identify information objects that match the query conditions, the system further comprising:

means for using the server computer to receive the specified relational condition;

wherein said means for identifying comprises means for using the server computer to detect when at least one of the information object's attributes and values satisfy the specified relational condition; and

wherein said means for transferring comprises means for transferring information to the processor to identify the detected information objects.

33. (Canceled)

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